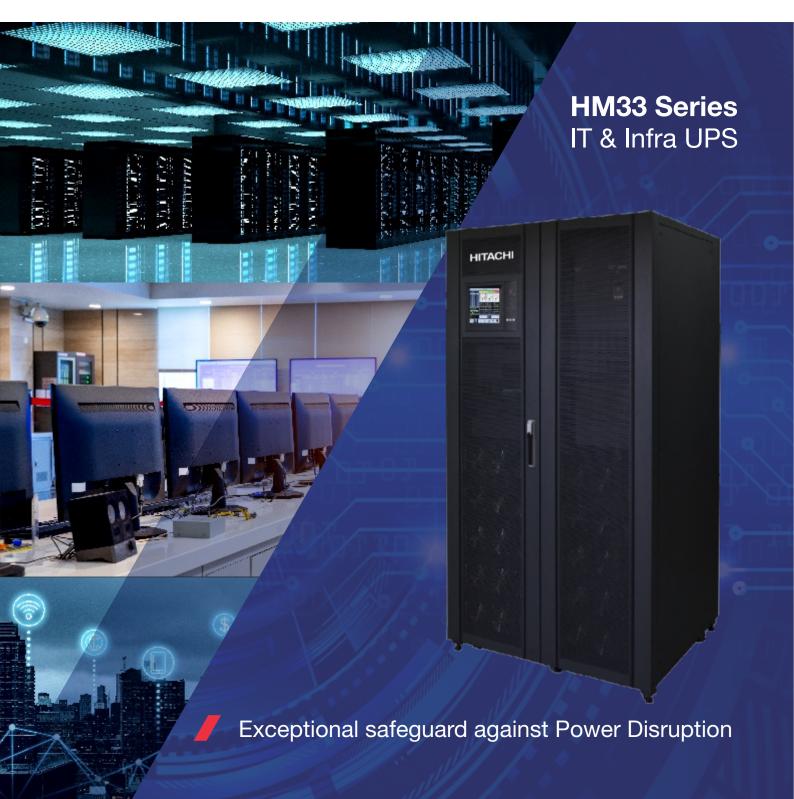




Modular IT & Infra UPS System

Range: 60 kVA to 500 kVA (3:3)







About HM33 Series IT & Infra UPS

HM33 Series modular UPS provides the most compact footprint of less than 2m2 with maximum capacity of 900kVA. With best reliability and high performance, it has been leading the domestic market for years. HM33 series UPS is considered to be the best power protection solution for large data centres, as well as for sensitive electronics. The HM33 series UPS having user friendly LCD touch screen display. This display provides graphical and text information of alarms, status data, instructions and faults. User can have friendlier and safer operation.

The HM33 series UPS keeps your network protected while saving on cost and data centre space. With best in class true online double conversion technology,





Optional Features

- Isolation transformer
- SNMP card
- Capacity enhancement at site



Configuration

- Hot swappable modular concept
- Can be paralleled up to 30 modules

redundancy options and flexible battery configurations and provides best reliability. This UPS is the Next Generation of true online, double conversion digital modular UPS.

Designed to meet the high availability power for wide variety of applications (IT, non-IT & medical), HM33 series combines innovation and simplicity and low total cost of ownership. The result is a power system that delivers both reliability and a return on investment.



Total Solution for

- ISP (Internet Service Provider)
- IDC (Internet Data Center)
- Computer room, service center
- Intelligent equipment
- Corporate office



Features

- User friendly LCD display provides graphical and text based information
- Modular design of subsystem, convenient for field maintenance
- All components are in module so less fault point and higher reliability
- The hot-swappable power modules take unique structure design
- Alarms data store in system (890 alarms)
- Less space needed Inherently N+X redundant
- Smart sleep function can intelligently make some power modules go to sleep, when load is relatively low to increase efficiency
- Only front access up to 120 kVA UPS and front and rare access for higher ratings UPS
- On site setting supported, easy for factory testina
- Can be paralleled up to 30 modules
- Wide voltage and frequency range for input
- Available in 30 kVA and 50 kVA module for multiple available options
- Programmable dry contacts are available in **HM series UPS**



Technology

Fully DSP controlled IGBT based



Certification







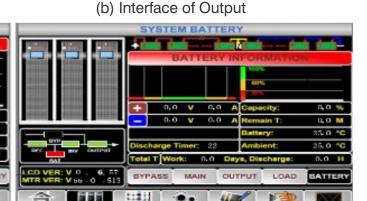


Control Panel

Friendly interface 7" LCD touch screen display provides graphical and text based information of alarms, status data, instructions for more friendly and safer operation.



(a) Interface of Main



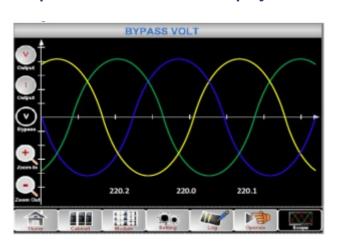
(d) Interface of Load

(a) Interface of Battery

Smart Sleep Function

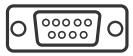
Smart sleep function can intelligently make some power modules go to sleep. When load is relatively low, improves the total system efficiency and save by using power and cooling cost. It offers easy setting with just two steps sleep mode and rotation period, power modules works in rotation, prolong the life time.

Output V/C waveforms on display



Communication Connection





RS-232 Port

RS-485 Port





USB Port

SNMP

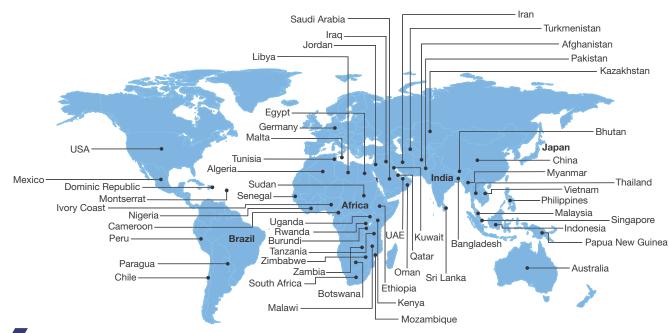


Technical Specifications

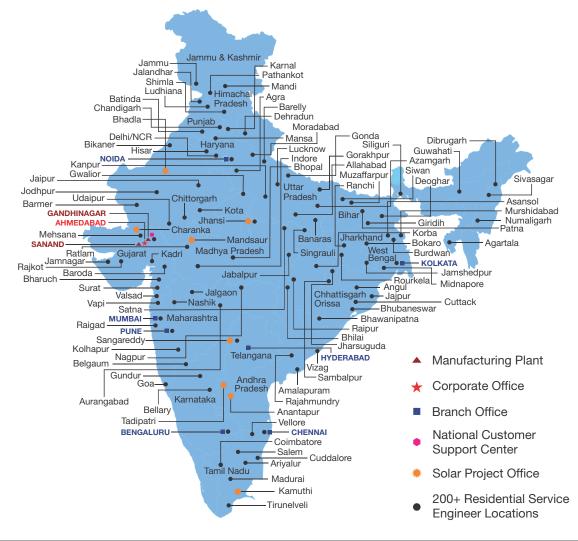
Model	HM-33-60 -3X	HM33-80 -3X	HM-33-90 -3X	HM-33-100 -5X	HM-33-120 -3X	HM-33-150 -5X	HM-33-200 -5X	HM-33-250 -5X	HM-33-300 -5X	HM-33-400 -5X	HM-33-500 -5X	
POWER RATING	60 kVA	80 kVA	90 kVA	100 kVA	120 kVA	150 kVA	200 kVA	250 kVA	300 kVA	400 kVA	500 kVA	
Main Input				<u> </u>	<u> </u>							
Grid System	3 Phases + Neutral + Ground											
Rated Input Voltage	380/400/415 VAC											
Rated Frequency	50/60 Hz											
Input Voltage Range	304~478 VAC (Line-Line), Full Load 228V~304 VAC (Line-Line), Load Decrease Linearly According to the Min Phase Voltage											
	, , , , , , , , , , , , , , , , , , , ,											
Input Frequency Range	42-60 Hz (Adjustable)											
Input Power Factor	>0.99											
Input Current THDi					<3%	(Full Linear	Load)					
Bypass Input								<u>, </u>				
Rated Bypass Voltage	380 V / 400 V / 415 V (Line to Line)											
Rated Frequency	±2%											
Bypass Voltage Range	Selectable, Default -20%~+15% Up Limited: +10%, +15%, +20%, +25% Down Limited: -10%, -15%, -20%, -30%, -40%											
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz											
Bypass Overload	125%, Long Time Operation 125% < Load <130%, Last for more than 10 min 130% < Load <150%, Last for more than 1 min >150%, Last for more than 300 ms 110% long term operation 110% ~125% last for more than 5 min 125% ~150% last for more than 1 min >150%, Last for more than 300 ms >150% last for more than 1 s											
Output			,a							and		
Rated Inverter Voltage					380/400	//15 \/^^ //	ined ine					
Rated Frequency	380/400/415 VAC (Line-Line)											
Output Power Factor	50/60 Hz											
Voltage Precision	0.9											
	±1%											
Transient Response	<5% for Step Load (20% - 80% - 20%)											
Transient Recovery	< 30 ms for Step Load (0% - 100% - 0%)											
Output Voltage THDu	<1.5% from 0% to 100% Linear Load <6% Full Non-Linear Load According to IEC/EN62040-3											
Inverter Overload	<110%, 60 min; 110%~125%,10 min; 125%~150%,1 min; >150%, 200 ms											
Frequency Regulation	50/60 Hz±0.01%											
Synchronized Range	Settable, ±0.5 Hz ~ ±5 Hz, Default ±3 Hz											
Synchronized Slew Rate	Settable, 0.5 Hz/s ~ 3 Hz/s, Default 0.5 Hz/s											
Battery and Charger				Oette	1016, 0.0 112	3 ~ 0 1 12/3,	Delault 0.	3 1 12/3				
Battery Rate Voltage			. ,		otton, Sotto	blo at 24 ta	A4 Non E	von Numbe	ora)			
Charger Voltage Precision			五	240 VDC (B	attery Setta	1%) 44 INOS. E	ven numbe	315)			
Charger Power	max=20% *Output Power											
					max=20	J% Output	Power					
AC Mode (Overall)	050/	000/	050/	000/	050/			0	00/			
Battery Mode (Inverter)	>95% >96% >95% >95% >96% >96%											
, , ,	>95%	>96%	>95%	>96%	>95%			>9	0%			
System Display					LED	CD . T!	Corcan					
Interface	LED + LCD + Touch Screen RS232, RS485, USB, Programmable Dry Contact RS232, RS485, USB, Programmable Dry Cortact								e Dry Conta	act,		
Option	Battery Cold Start, SNMP, Parallel Kit, SNMP, AS400, Parallel Kit, Lightning Protection Comp									ponents,		
Environmental	Lightning	Protection	n Compone	ents, Dust F	ilter, LBS			Dust Fil	ter, LBS			
Operation Temperature						0 ~ 40°C						
Storage Temperature												
Relative Humidity	-40 ~ 70°C 0 ~ 95% Non Condensing											
Noise (1 meter)	· ·											
	65dB @ 100% Load, 62dB @ 45% Load <1000 m, Load Derated 1% per 100 m from 1000 ~ 2000 m											
Altitude		· · · · · · · · · · · · · · · · · · ·										
Ingress Protection						IP 20						
Physical Data												
Cabinet Dimensions (WxDxH) (mm)	600 x 980 x 950 x 1400 x 1150 x 1400						650 x 960					
Cabinet Weight (kgs)												



Worldwide Presence



Pan India Presence





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Tel: +91-2/17-6/8 ///, Fax: +91-2717-678 700

Gandhinagar Facility:

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